

What is claimed is:

1. A method for communicating information in a radiocommunication system comprising the steps of:

- 5 measuring, at a mobile station, a temperature level;
 comparing said measured temperature level with a threshold temperature level;
 selectively reducing, based upon said comparing step, a transmission rate of said mobile station;
10 transmitting an indication from said mobile station of said reduced transmission rate to said system; and
 reallocating resources within said system in response to said indication of said reduced transmission rate.

- 15 2. The method of claim 1, wherein said step of selectively reducing said transmission rate further comprises a step of:
 transmitting in N timeslots per frame at said reduced transmission rate rather than M timeslots per frame, where $M > N$.

- 20 3. The method of claim 1, wherein said step of selectively reducing said transmission rate further comprises a step of:
 transmitting using N spreading codes rather than M spreading codes, where $M > N$.

- 25 4. The method of claim 1, wherein said step of selectively reducing said transmission rate further comprises the step of:
 puncturing a spreading code.

5. The method of claim 1, further comprising the step of:

informing a user that said transmission rate is being reduced due to temperature.

6. The method of claim 5, wherein said step of informing further comprises the step of:

displaying said reduced transmission rate along with an icon that indicates overheating.

7. The method of claim 5, wherein said step of informing further comprises the step of:

generating a sound effect which indicates overheating.

8. The method of claim 1, wherein said step of reallocating resources within said system in response to said indication of said reduced transmission rate further comprises the step of:

transmitting, from said system to said mobile station, during at least one additional timeslot in the downlink.

9. The method of claim 1, wherein said step of reallocating resources within said system in response to said indication of said reduced transmission rate further comprises the step of:

permitting another mobile station to transmit during at least one timeslot on a frequency used by said mobile station in the uplink.

10. The method of claim 1, wherein said step of reallocating resources within said system in response to said indication of said reduced transmission rate further comprises the step of:

allocating a spreading code used by said mobile station to another mobile station.

11. The method of claim 1, wherein said step of transmitting an indication from said mobile station of said reduced transmission rate to said system further comprises the step of:

transmitting a request for said reduced transmission rate.

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12. A transceiver comprising:

a transmitter for transmitting information over an air interface;

a temperature measuring device for determining a temperature of said transceiver;

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a processor for comparing said measured temperature with a threshold temperature and for selectively reducing a transmission rate of said transmitter based on a result of said comparison; and

an output device for informing a user of said transceiver of said reduced transmission rate.

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13. The transceiver of claim 12, wherein said output device is a display.

14. The transceiver of claim 12, wherein said output device is a speaker.

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15. A method for controlling a temperature of a mobile station in a radiocommunication system comprising the steps of:

measuring a temperature of said mobile station;

comparing said temperature to a threshold temperature; and

selectively informing a user of said measured temperature.

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16. The method of claim 15, further comprising the step of

moving said mobile station to a different location in response to said

30 selectively informing step.

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17. A method for communicating in a radiocommunication system comprising the steps of:

measuring, at a mobile station, a temperature level;

determining a transmit position of said mobile station within a higher

5 layer message; and

selectively delaying transmissions of said mobile station based upon said measured temperature level and said transmit position of said mobile station.

18. The method of claim 17, wherein said higher layer message is a Layer 3 message and said step of determining further comprises the step of:

10 identifying whether a current Layer 3 message has been completely transmitted.

19. The method of claim 18, wherein said step of selectively delaying transmissions further comprises the step of:

15 comparing said measured temperature level with a first threshold temperature level; and

delaying transmissions if said measured temperature level exceeds said first threshold and said current Layer 3 message has been completely transmitted.

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20. The method of claim 18, wherein said step of selectively delaying transmissions further comprises the step of:

continuing transmissions if said current Layer 3 message has not been completely transmitted.

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21. The method of claim 18, wherein said step of selectively delaying transmissions further comprises the step of:

comparing, if said current Layer 3 message has not been completely transmitted, said measured temperature to a second threshold; and

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continuing to transmit said current Layer 3 message if said measured temperature does not exceed said second threshold.

5 22. The method of claim 17 further comprising the step of:
transmitting an indication to said system indicating delay of said
transmissions.

10 23. The method of claim 17, further comprising the step of:
informing a user of said mobile station of heat-related delayed
transmissions.

15 24. The method of claim 17, wherein said step of selectively delaying further
comprises the step of:
puncturing a spreading code associated with said transmissions.

20 25. The method of claim 17, wherein said step of selectively delaying further
comprises the step of:
reducing a number of timeslots per frame associated with said
transmissions.

25 26. The method of claim 17, wherein said step of selectively delaying further
comprises the step of:
reducing a number of spreading codes associated with said transmissions.

27. A transceiver comprising:
a transmitter for transmitting information over an air interface;
a temperature measuring device for determining a temperature of said transceiver; and

5 a processor for comparing said measured temperature with a threshold temperature and for selectively reducing a transmission power of said transmitter based on a result of said comparison.

28. The transceiver of claim 27, further comprising:
10 an output device for informing a user of said transceiver of said reduced transmission power.

29. The transceiver of claim 27, further comprising:
a receiver for receiving transmit power control commands, wherein if
15 said processor receives a transmit power control command instructing the transceiver to increase its transmit power, then said processor increases said transmit power and implements a transmission rate reduction.

30. The transceiver of claim 29, wherein said transceiver transmits a
20 message requesting said transmission rate reduction prior to implementing said transmission rate reduction.

31. The transceiver of claim 29, wherein said transceiver implements said
transmission rate reduction and transmits a message indicating said transmission rate
25 reduction.

32. The transceiver of claim 27, wherein said transceiver reduces said
transmit power and reduces a transmission rate when said measured temperature
exceeds said threshold temperature.

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33. The transceiver of claim 13, wherein said reduced transmission rate is displayed as a percentage of a maximum transmission rate.

34. The transceiver of claim 13, wherein said reduced transmission rate is
5 displayed as a percentage reduction from a maximum transmission rate.

35. The transceiver of claim 28, wherein said reduced transmission power is displayed as a percentage of a maximum transmission power.

10 36. The transceiver of claim 28, wherein said reduced transmission power is displayed as a percentage reduction from a maximum transmission power.

37. A mobile station comprising:
means for reducing a transmission rate associated with information
15 transmission from the mobile station; and
means for informing a user of said reduced transmission rate.

38. A mobile station comprising:
means for reducing a transmission power associated with information
20 transmission from the mobile station; and
means for informing a user of said reduced transmission power.

39. A mobile station comprising:
a transceiver for transmitting and receiving radio signals; and
25 an output device for indicating a transmit power employed by said
transceiver.

40. The mobile station of claim 39, wherein said output device is a computer attached to said mobile station.

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41. The transceiver of claim 12, wherein said output device is a computer attached to said transceiver.